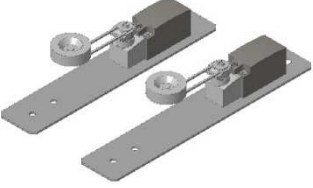


LUBING Chain breakage monitoring for curve conveyor

	LUBING Chain breakage monitoring for curve conveyor	
	Item No.	Description
	185 800 29 00	Chain breakage monitoring with 2 switches for curve conveyor (set of 2)

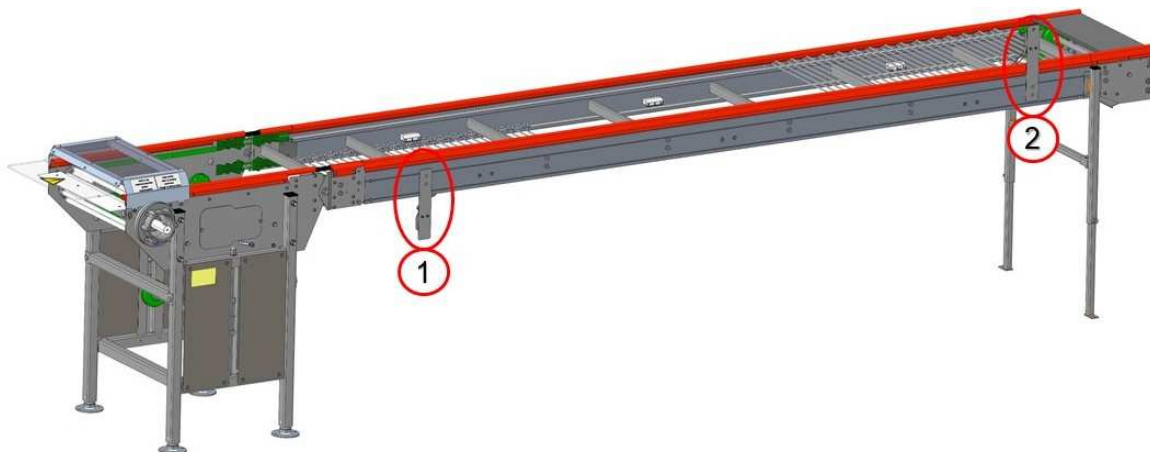
The LUBING chain breakage monitoring for curve conveyor is a control system that is especially designed for the use with the LUBING curve conveyor. The chain breakage monitoring continuously checks the running of the conveyor chain for chain breakage during operation of the system.

Due to the chain breakage monitoring system, egg loss and damage to the conveyor system can be reduced to a minimum, as the system stops the entire conveyor system and puts it out of operation if necessary (chain breakage).

The system consists of two position switches with adjustment roller levers. For longer conveyor sections additional switches can be added as required. As a rough recommendation, a set of two switches can be planned for each drive unit.

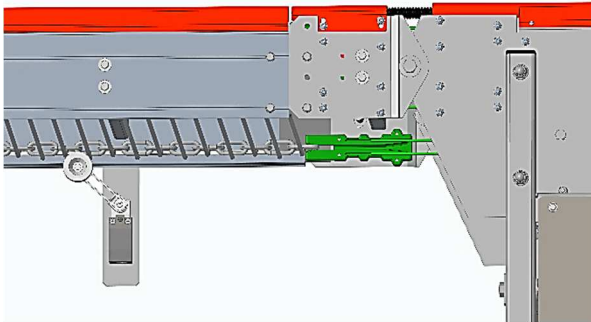
One switch controls the upper chain and one switch controls the lower chain. The roller levers slide over the conveyor chain while the system is in operation. In the event of a failure (chain breakage), the roller levers swing back to zero position because the position switches can no longer detect the conveyor chain. The conveyor system stops.

Position of switches

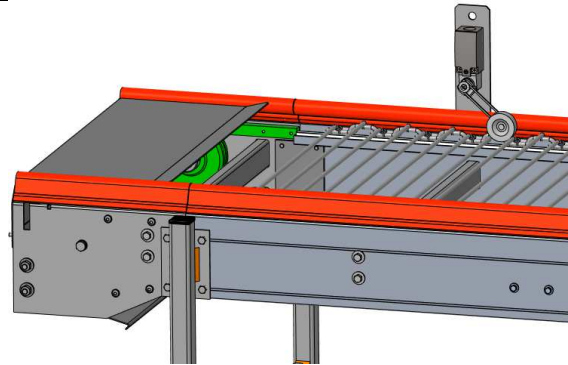


The chain breakage monitoring is installed at the critical points of a conveyor system where a chain breakage can lead to egg losses or consequential damage to the system:

- 1 Control of the lower chain by positioning close to the front drive
- 2 Control of the upper chain by positioning close to the end unit



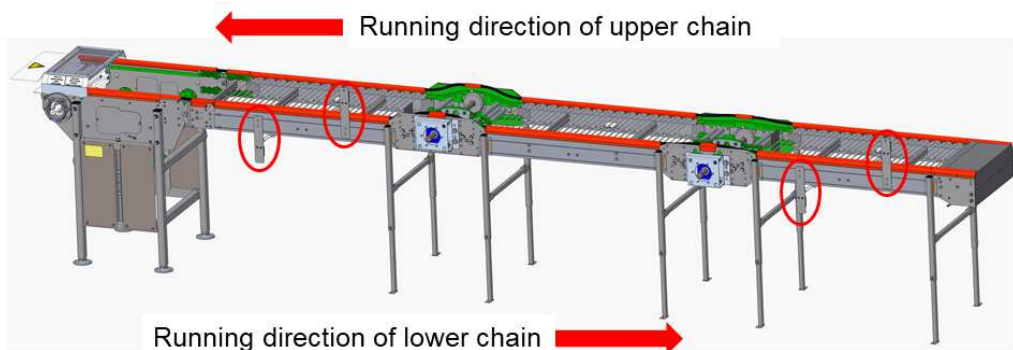
View from below: Control of the lower chain by positioning close to the front drive.



View from above: Control of the upper chain by positioning close to the end unit.

Important information!

For longer conveyor sections with one or more intermediate drives, it is recommended to position the switches close to an intermediate drive. The actual positioning of the switches is based on the transport direction/running direction of the upper or lower chain. If the viewing direction corresponds to the transport direction/running direction, the switches are positioned after an intermediate drive.



Example of the positioning of the chain breakage monitoring system on a conveyor line with intermediate drives.

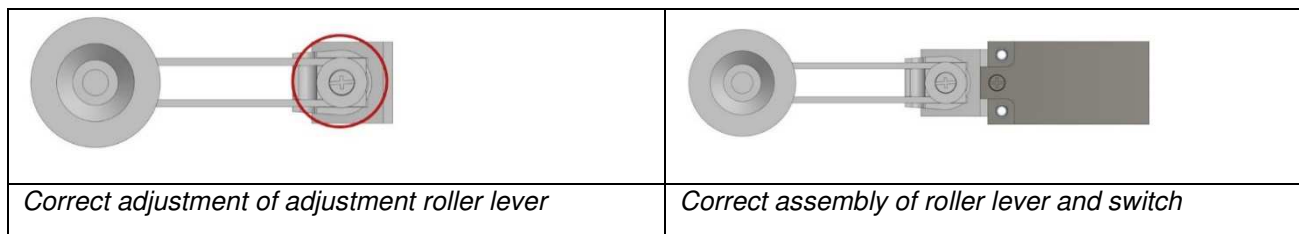
Scope of delivery and installation

The LUBING chain breakage monitoring system is delivered unassembled in components. It will be assembled by the customer on site. The following components are included in the scope of delivery:

- 2x Position switch
- 2x Adjustment roller lever
- 2x Holding plate
- Screw material

Information

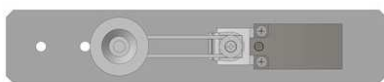
In the first step of installation, please adjust the adjustment roller levers correctly. For this, loosen the cross-head screw to bring the bracket into top position (fig. left). Then screw the adjustment roller lever and the position switch together tightly (fig. right).



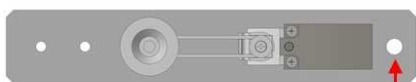
The position switches are mounted on the holding plates using the M4 screw material included in the delivery

Important information!

Note that the two holding plates are two different plates. The shorter holding plate is used where the position switch detects the lower chain. The longer holding plate is used where the position switch detects the upper chain. To make it easier to identify the holding plates, the longer model has an additional marking hole. This must be aligned upwards when mounting on the conveyor.



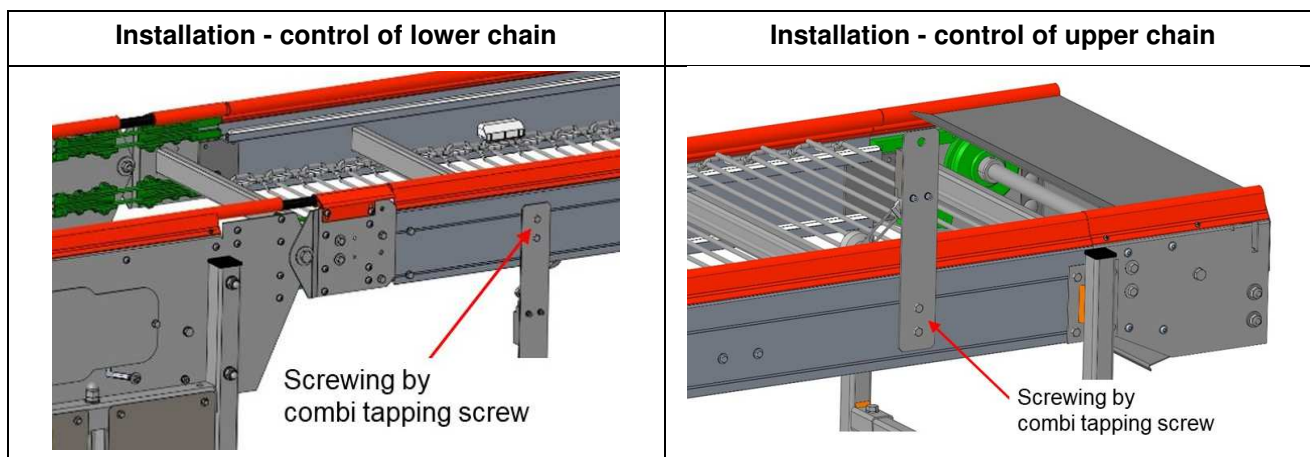
Holding plate with position switch
- for lower chain



Holding plate with position switch
- for upper chain

Marking hole

For the final mounting of the holding plates on the conveyor, the 6.3x32 combi tapping screws of the traverses are used. There is no additional screw material necessary.



Electrical installation

The position switches have got two normally open contacts each for connecting to a safety relay (emergency stop relay). On the last page you will find a schematic connecting diagram for orientation.

The position switches are approved for all common supply voltages and frequencies. As an optional feature, LUBING also offers the relay PNOZ X2 24 V DC 2n/o. It is an emergency stop relay for local use, which requires a power supply of 24 V DC.

Optional accessories	
Item No.	Description
53 02 029	Relay PNOZ X2 24 V DC 2n/o

